Maxar

Innovative Capabilities That Connect Earth and Space

Satellite data's role in supporting sustainable development goals

Presented by Ilya Yudin

Public – External Recipients

MAXAR

Maxar is a world leading
space technology and intelligence company.

We unlock the promise of space to help customers
solve problems on Earth and beyond.

MAXAR

But our reach is global.

SWEDEN

UNITED KINGDOM

ST. LOUIS, MO

YPSILANTI, MI

PALO ALTO, CA

SAN JOSE, CA

PASADENA, CA

TOKYO, JAPAN

CHARLOTTESVILLE, VA

ARLINGTON, VA

CHANTILLY, VA

HERNDON, VA

LONGMONT, CO

WESTMINSTER, CO

COLORADO SPRINGS, CO

NEW DELHI, INDIA

MUMBAI, INDIA

ATLANTA, GA

MELBOURNE, FL

ORLANDO, FL

TAMPA, FL

SINGAPORE

More than **20** locations

Customers in more than **70** Countries

170 Resellers

4,400 Employees

MAXAR

We operate the world's most advanced Earth imaging constellation.

Maxar's four imaging satellites capture **more imagery** at a **higher resolution** than other commercial imagery providers.
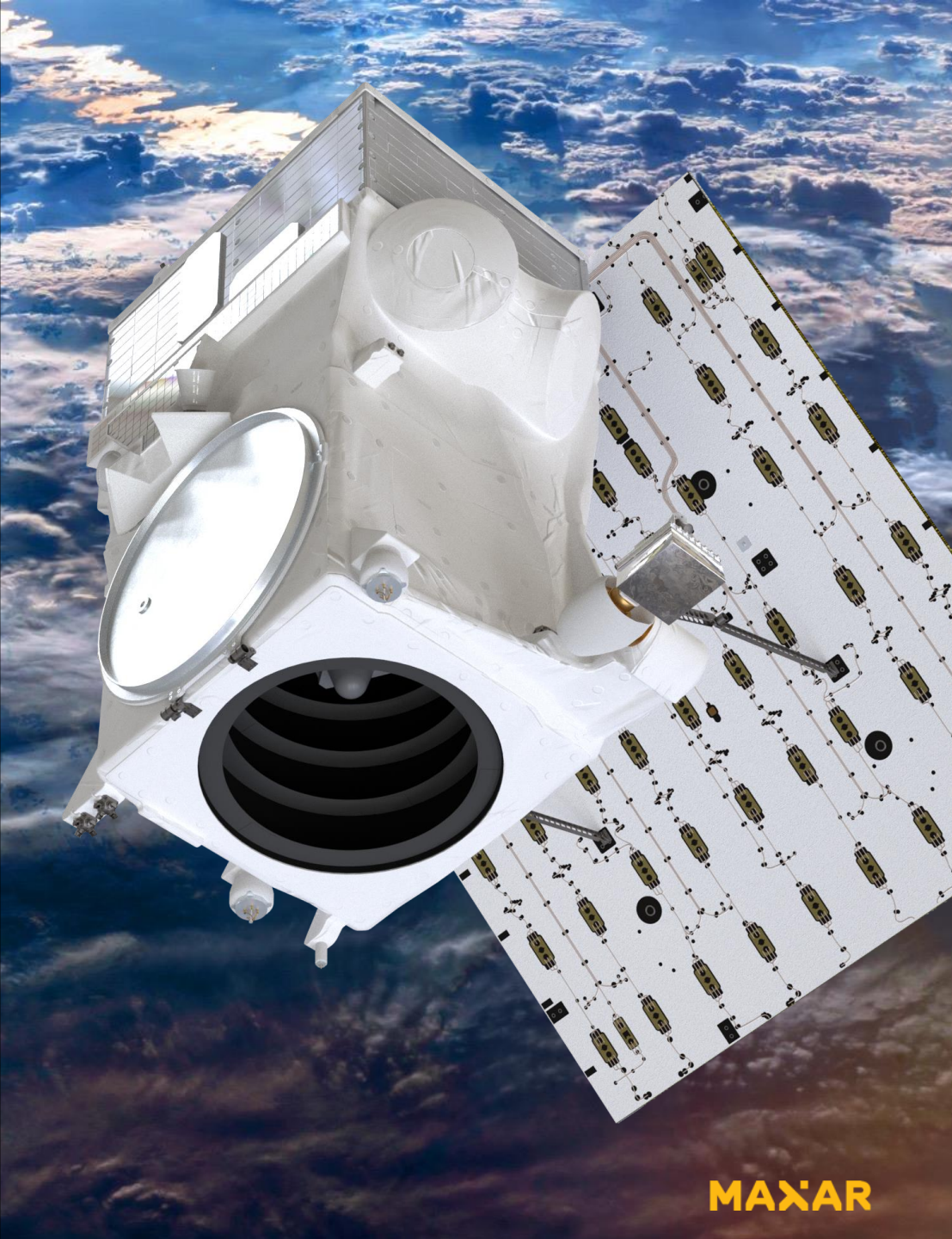
3.8M+

Square kilometers of Earth imagery capacity each day

1.4B

Square kilometers of Earth imagery capacity each year

LOOKING TO THE FUTURE

Maxar is designing and building WorldView Legion, a new generation of Earth observation satellites meant to serve our customers' evolving needs. WorldView Legion's six satellites will image Earth's most active areas more frequently, and at a higher resolution, than ever before.

MAXAR

We do a lot more than that on Earth.

EARTH INTELLIGENCE CAPABILITIES

- Geospatial intelligence in 2D and 3D, fueled by satellite imagery and multi-source location data layers

- Analytics and geospatial services powered by machine learning and human expertise
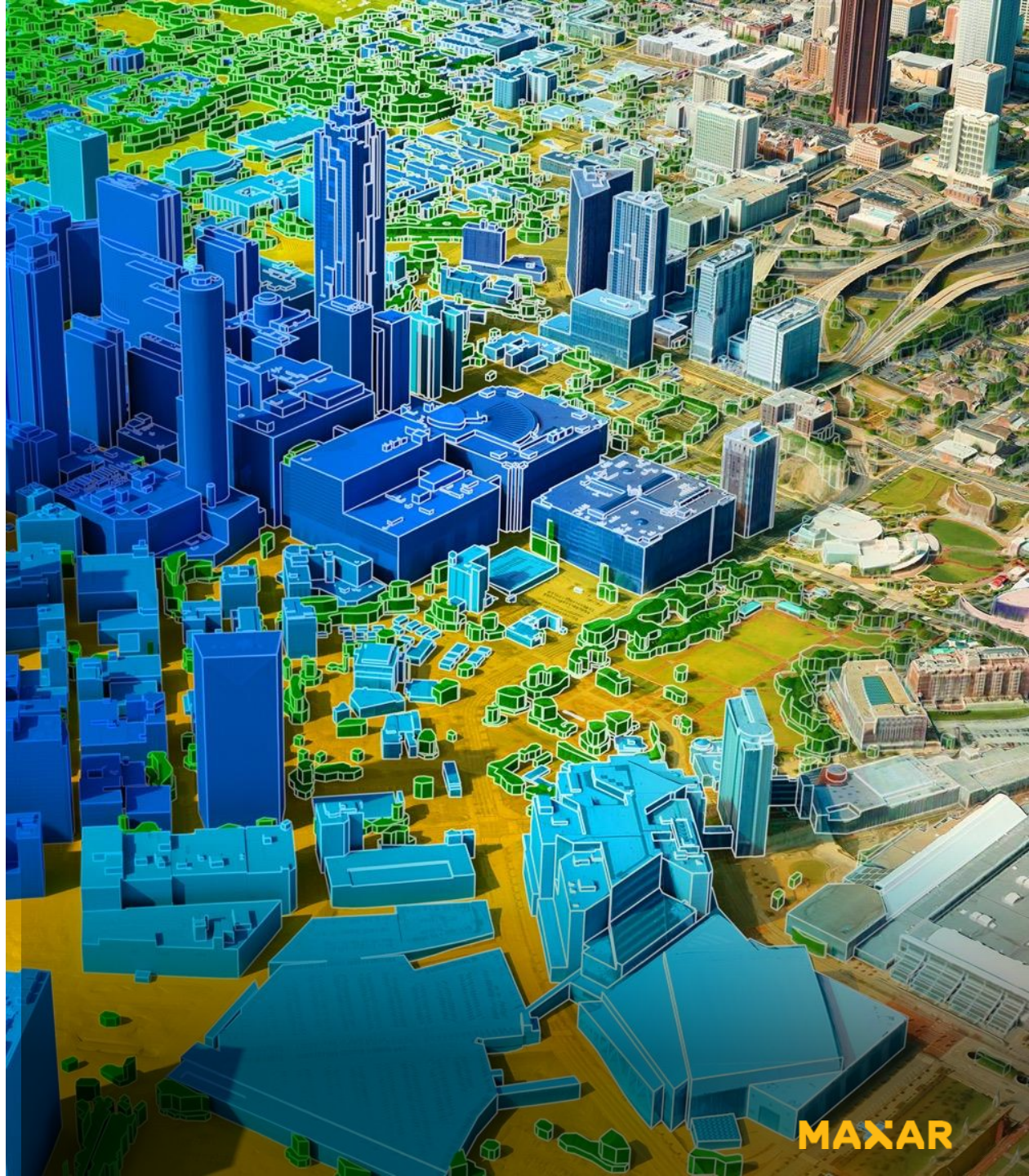
125+
Petabytes of data in our archive

700+
Software developers on staff

1,700+
Cleared personnel

MAXAR

We do a lot more than that
in space.

SPACE INFRASTRUCTURE CAPABILITIES

Design, manufacturing and operation for:

- Communications and Earth observation satellites
- Space exploration spacecraft
- Solar electric propulsion
- On-orbit satellite servicing vehicles
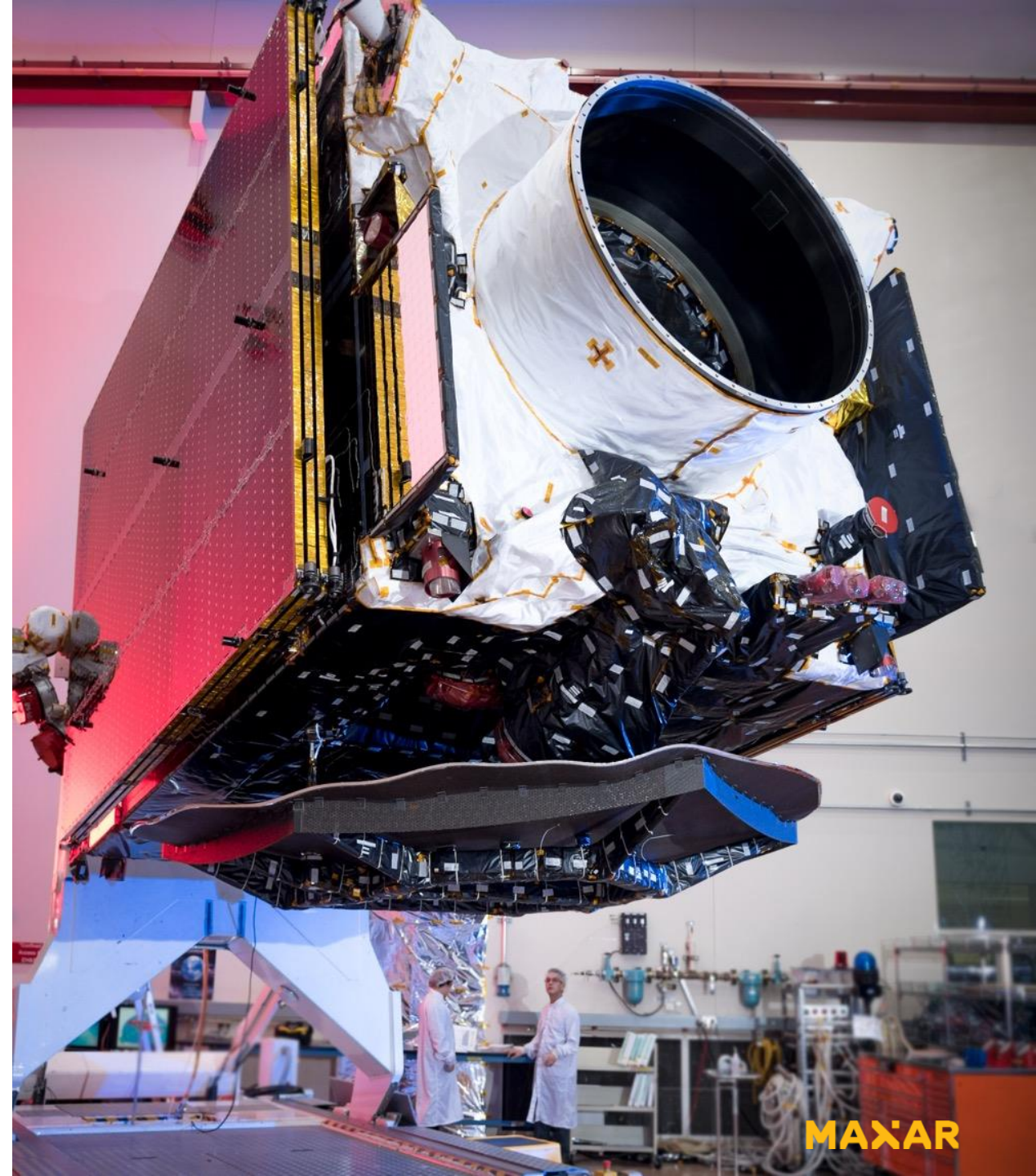- Robotics for space operations and exploration

80+
Maxar-built geostationary satellites on-orbit

300+
Maxar-built spacecraft launched

2,900
Combined years on orbit

MAXAR

Space exploration

Connectivity and telecommunications

Remote monitoring and risk mitigation

Defense and intelligence

Infrastructure planning and development

Navigation and location-based services

Our solutions serve dozens of industries worldwide, from telecommunications and mapping to defense and intelligence.

MAXAR

SDG 1 | NO POVERTY

- 11% of the world's population lives in extreme poverty. More than 800 million people globally live on less than US $1.25 per day - The World Bank says

- Key Satellite Solutions:

  – High-detail satellite imagery provides unparalleled clarity and resolution for the best view of what's happening on the ground.

  – Machine learning and imagery provide important proxy indicators, such as car counts, building density, green space, and more, which is utilized in models to predict the spatial variability of poverty across urban areas

Satellite imagery is a valuable tool to help governments and stakeholders better understand the spatial nature of poverty.

SDG 2 | ZERO HUNGER

Cattle Migration from CES to BOR South Country - April 2018

- Some 795 million people in the world do not have enough food to lead a healthy active life. That's about one in nine people on Earth. Food Aid Foundation.

- Key Satellite Solutions:

  - Maxar Crowdsourcing leverages our satellite constellation – connecting volunteers with millions of square kilometers of high-resolution Earth imagery.

  - The identification and tagging of features across large areas, such as temporary settlements, permanent settlements, and herds of livestock reveal insight into food insecurity and conflict through migration patterns and displacement.
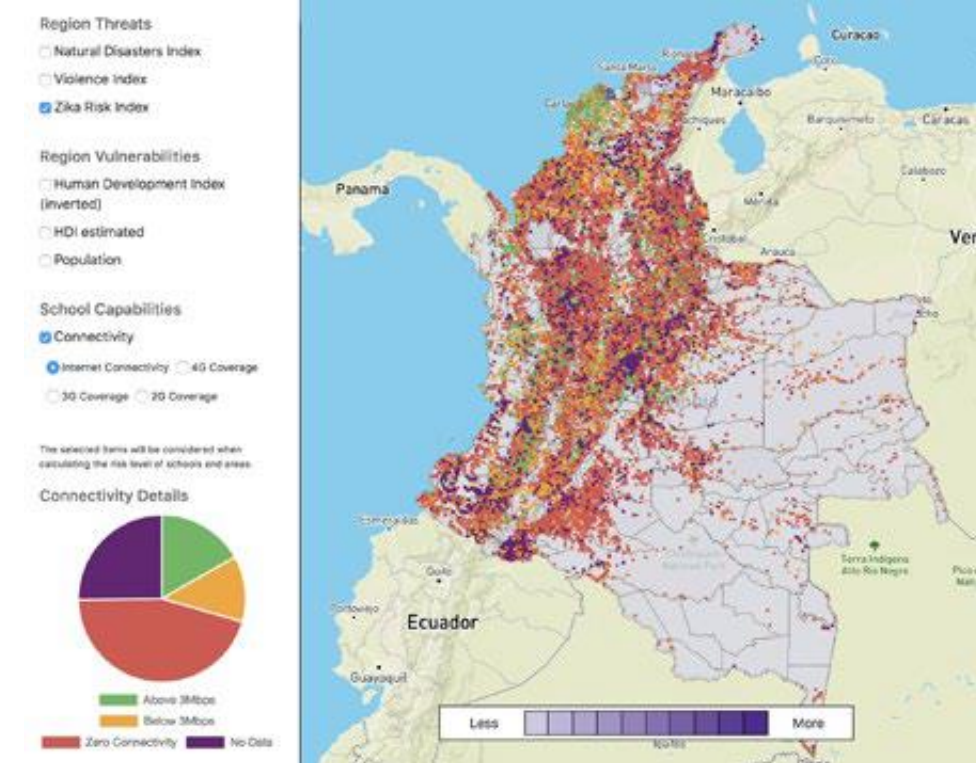
- Focusing on five vulnerable counties in South Sudan: Panyijiar, Leer, Guit, Koch, and Mayendit – Maxar utilize satellite imagery and a crowdsourcing platform to study and react to communities in need.
- Volunteers tag permanent welling's (such as tukuls or circular-shaped homes), temporary dwellings (such as tents), and herds of livestock. FEWS NET then uses this data set to accurately assess the level of food insecurity in the region – assisting humanitarians with planning optimal responses, strengthening data analysis, and helping them understand where to locate those in need.

MAXAR

SDG 4 | QUALITY EDUCATION

- Education liberates the intellect, unlocks the imagination and is fundamental for self-respect. Globalgoals.org

- Key Satellite Solutions

  – ARD platform leverages satellite imagery to make the invisible – visible – on a global scale.

  – UNICEF's real-time data visualization utilizes the power of the above technologies to unearth every school – even in the most remote corners of the world.

SDG 6 | CLEAN WATER and SANITATION

- 3 in 10 people lack access to safely managed drinking water services and 6 in 10 people lack access to safely managed sanitation facilities. United Nations.

- Key Satellite Solutions:

  – OpenStreetMap (OSM), a free, crowd-sourced, editable map of the world, is used to empower those Globally.

  – Maxar is an essential partner and proud supplier of the imagery that the OSM crowd community utilizes to trace and label relevant information.

SDG 13 | CLIMATE ACTION

- Large wildfires in the United States burn more than twice the area they did in 1970, and the average wildfire season is 78 days longer. Center for Climate and Energy Control.

- Key Satellite Solutions:

  – Maxar's Open Data Program provides accurate high-resolution satellite imagery to support disaster recovery in the wake of large-scale natural disasters.

  – Open imagery is released for select sudden onset major crisis events, including pre-event imagery post-event imagery, and a crowdsourced damage assessment.

Explore innovative capabilities that connect Earth and Space at
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